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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/840,000	04/19/2001	Vi-En Choong	A-70204-1/RMS/BTC	5054	
75	590 03/29/2002				
FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP Suite 3400 Four Embarcadero Center San Francisco, CA 94111-4187			EXAMINER		
			SISSON, BRADLEY L		
			ART UNIT	PAPER NUMBER	
San Plancisco,	CA 74111-4107		1634		
			DATE MAILED: 03/29/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)			
•		09/840,000		CHOONG ET AL.			
Office Action Summary		Examiner		Art Unit			
	•	Bradley L. Si	sson	1634			
	The MAILING DATE of this communication app						
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠ Responsive to communication(s) filed on <u>18 January 2002</u> .							
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>15-19,21-24,26 and 27</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6) Claim(s) <u>15-19,21-24,26 and 27</u> is/are rejected.						
•	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers OND The experification is objected to by the Examiner							
9) The specification is objected to by the Examiner.10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	The proposed drawing correction filed on			oved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449) Paper No(s))		ary (PTO-413) Paper No(s) Il Patent Application (PTO-152)			

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DETAILED ACTION

Location of Application

1. The location of the subject application has changed. The subject application is now located in Group 1630, Art Unit 1634, and has been assigned to Primary Examiner Bradley L. Sisson.

Priority

2. This application filed under 37 CFR 1.20/121 lacks the necessary reference to the prior application. A statement reading "This is a continuation of Application No. 09/503,163, filed May 4, 1999." should be entered following the title of the invention or as the first sentence of the specification. Also, the current status of all nonprovisional parent applications referenced should be included.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 15, 17-19, and 22-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Okano et al.

Okano et al., column 2, discloses a method that results in enhanced hybridization of nucleic acids to probes wherein said method an electric field is generated. As set forth therein, the probes or capture sequences are arranged in a manner whereby different sequences are present in different locations. The generation of the electric field is repeated or successive manner.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claims 15-19, 21-24, 26, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okano et al., in view of Lizardi.

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- 9. See above for the basis of the rejection as it pertains to the disclosure of Okano et al.
- 10. Okano et al., do not disclose the use of a porous media nor do they teach applying the charge in a manner whereby mixing, stirring or rotational movement is generated.
- 11. Lizardi discloses at columns 2-5 a method whereby nucleic acids are caused to migrate whilst within a porous substrate such agarose, polyacrylamide, etc. Lizardi also disclose altering the electric field at right angles. Such alteration of the electric field would impart rotational movement of the molecules.
- 12. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the method of Okano et al., with the method of Lizardi so to incorporate the use of a porous media and to have further altered the application of an electric field as use of known porous media would impart greater stability to the movement and separation of molecules not only by sequences (hybridization to probes) but also by size.

Conclusion

- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley L. Sisson whose telephone number is (703) 308-3978. The examiner can normally be reached on 6:30 a.m. to 5 p.m., Monday through Thursday.
- 14. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones can be reached on (703) 308-1152. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9307 for After Final communications.

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15. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Bradley L. Sisson Primary Examiner Art Unit 1634

S. L. Lisson

bls

March 25, 2002